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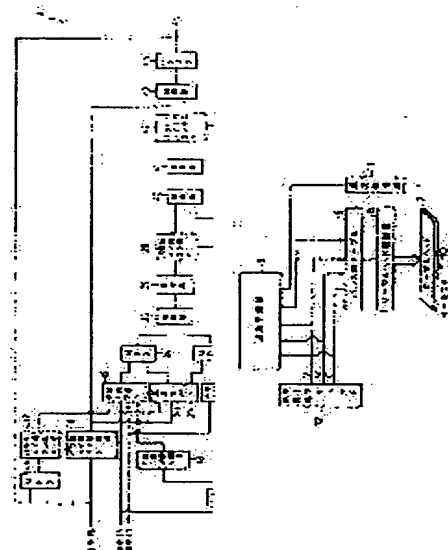
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(54) ESTIMATING DEVICE FOR HEAT ACCUMULATION OF THERMAL HEAD

(57) Abstract:

PURPOSE: To enable estimation of heat accumulation to be performed high precisely by a method wherein estimative calculation of heat accumulation in a substrate of a thermal head is calculated each recording cycle according to variation in temperature of a heat slinger, and estimative temperature just before start of a present recording cycle is calculated.

CONSTITUTION: A thermal head control part 12, just before start of recording of each line, measures temperature of a heat slinger of a thermal head 7 with a thermister 10 and a temperature detecting part 11, and performs control for digitization. Then, it transmits data necessary for estimation of temperature such as a temperature data of the heat slinger, a number of gradation of a recording pixel, recording speed, etc. to a temperature estimative part 6. The temperature estimative part 6 estimates temperature of the head 7 successively from those data. For temperature estimating operation, estimation of heating and cooling temperature of each pixel position when cross talk is not considered, is firstly performed, and this estimated temperature value is stored in a heating and cooling line buffer 28. This one line content estimated temperature value is averaged between adjacent pixels, and the estimated temperature value containing the cross talk is stored in a cross talk line buffer 42. Since the obtained estimated temperature value is increment from the temperature of the heat slinger, output is performed by adding temperature of each position.



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